Disclosure of historical spatial and statistical data in GIS environment

The aim of the project is to make historical and statistical data accessible in a GIS environment. It requires digitization of maps, regional and district borders, as they existed in the period 1922-2011, for the present territory of the Czech Republic and its historical development. The historical database will be loaded with the data of all previous population censuses on the district level and on the level of cadastral units in Prague. Historical population trends and the development of the ethnic, linguistic, demographic and social structure of the Czech population between 1922 and 2011 will be presented in a form of specialized maps, historical layers of the population in Prague and the Czech Republic, and exhibitions and will constitute an important basis for decision-making by state and regional authorities. A further objective is to apply the project results at all levels of the education system and to present the findings in international conferences and scientific publications.

The project provides access to the cultural heritage of historical cartographic and statistical data and scientific maps for a broad community of users, and allows the application of research results to education based on an understanding of national and regional identity and culture. It uses the Geographical Information System (GIS) and internet tools to present biodiversity (in Czech and English) and historical development of regions in the Czech Republic. This is aimed at a wide target audience of students, experts and national societies, the teaching of Bohemian Studies and the demographic, historical, political and geographical contexts of development of the Czech population from the establishment of Czechoslovakia to the present. It thus contributes to the systematic and efficient use of modern technologies in social sciences in education, both in the Czech Republic and abroad, and to the development of the educational content, and strengthens the awareness of Czech history within the international community.

Partial research objectives:

01 Creating specialized methodology for the creation and use of spatial data
- The methodology will include creation of spatial (geographic) data collections of phenomena, events, processes and social entities in Prague, related to historical population censuses held between 1922 and 2011.

02 Digitizing spatial data
- The aim is to create datasets, accessible or difficult to obtain maps of administrative divisions in the Czech Republic and Prague from 1922 to 2011 and to make these spatial data available in a GIS environment.

03 Creating databases of georeferenced data
- The aim is to create databases of georeferenced data from censuses held between 1922 and 2011 (which are usually difficult to access).

04 Creating large-format specialized maps
- Following the production methodology, large-scale maps will be created using GIS technology and printed geographic materials for the Czech Republic and Prague. The maps will be available in a broad range of sizes with A4 size as a low limit. The maps will be used in the educational system and further development of cultural heritage.

05 Exploiting project results in practice
- The aim is to present the project results in a wide range of courses in Czech and English.

06 Presenting project results
- The aim is to present the project results in a wide range of courses in Czech and English.

Sample outputs:
- Maps for publication Socio-Spatial Structure of Industrial Prague (in 1922)

Socio-economic status of great Prague by Julia Moschalecová

Very strong

Strong

Poor

Very poor

Proportion of children in Prague aged 6-14 years old in 1910

Proportion of children in Prague aged 6-14 years old in 1910 (without children servants and servants)

Share of residents born in Prague (%)

01-05

06-10

11-15

16-19

20-24